

# Y. M. PUBLICSCHOOL

SUB: - MATHEMATICS

CHAPTER: - 03

Class: - IX Std

DAY: - 15

## **POLYNOMIALS**

e. Classify the following as linear quadratic & cubic polynomials:-

i.  $x^2 + x$

Ans:- Power is 2 , so quadratic polynomial.

ii.  $x - x^3$

Ans:- Power is 3 , so cubic polynomial.

iii.  $y + y^2 + 4$

Ans:- Power is 2 , so quadratic equation.

iv.  $1 + x$

Ans:- Power is 1 , so linear equation.

v.  $3t$

Ans:- Power is 1 , so linear equation.

## ZEROES OF POLYNOMIALS

a. Find the value of the polynomial

$$5x - 4x^2 + 3 \text{ at}$$

i.  $x = 0$

ii.  $x = -1$

iii.  $x = 2$ .

i.  $5x - 4x^2 + 3$  ;  $x = 0$

$$= 5(0) - 4(0)^2 + 3$$

$$= 0 - 0 + 3$$

$$= 3$$

ii.  $5x - 4x^2 + 3$  ;  $x = -1$

$$= 5(-1) - 4(-1)^2 + 3$$

$$= -5 - 4(1) + 3$$

$$= -5 - 4 + 3$$

$$= -9 + 3$$

$$= -6.$$

iii.  $5x - 4x^2 + 3$  ;  $x = 2$

$$= 5x - 4x^2 + 3$$

$$= 5(2) - 4(2)^2 + 3$$

$$= 10 - 4(4) + 3$$

$$= 10 - 16 + 3$$

$$= -6 + 3$$

$$= -3.$$